COLORADO DEPARTMENT OF TRANSPORTATION

JOB SAFETY ANALYSIS



Activity Name: Residue By Distillation Activity Number: T59

Activity Description & Purpose: This test method covers the quantitative determination of residue and oil distillate in asphalt emulsions composed principally of a semisolid or liquid asphaltic base, water, and an emulsifying agent.

Typical Equipr Description See associated test procedure Sequence of Job Tasks 1. Assemble distillation pot with	ment Class Code	Typical Crew Size: (Crew sizes may vary due to different	Typical Material	Safety glasses/Hardtoe boots/Heat resistant
See associated test procedure Sequence of Job Tasks	Class Code			
Sequence of Job Tasks			(Crow sizes may yazy due to different Description Class Co	
		conditions throughout the state).	Asphalt Emulsion	gloves/Heat resistant apron
		1		
Assemble distillation pot with	Potential Hazards	Safe Job Procedures		Never
thermometers, and get weight.				
Pour in 200 grams of emulsion into distillation pot, and record new weight. Bur	rns, Particles in eyes	Wear all personal protective equipment.	Handle hot binder without gloves or can clamps.	
3. Start burners, and start timer. Bur	rns	Wear all personal protective equipment.	Handle hot binder without gloves or can clamps.	
Take a thermometer reading every 5 minutes until bottom thermometer reads 490 degrees.	rns	Wear all personal protective equipment.		Handle hot binder without gloves or can clamps.
5. When bottom thermometer gets to 490 drop the ring burner to the bottom of the still, and start the 15 holding period.	rns	Wear all personal protective equipment.	Handle hot binder without gloves or can clamps.	
6. Immediately after distillation is complete weigh the still and thermometers, and record final weight.	rns, Particles in eyes	Wear all personal protective equipment. Awarene	Handle hot binder without gloves or can clamps.	
7. Pour distillation residue into Bur molds as needed.	rns, Particles in eyes	Wear all personal protective equipment. Awarene	ess of hot binder splash back.	Handle hot binder without gloves or ca

COLORADO DEPARTMENT OF TRANSPORTATION

JOB SAFETY ANALYSIS



Description Class Code boots/Heat resistan	Activity Name: Residue By Distillation			Activity Number: T59			
Typical Equipment Description See associated test procedure Typical Crew Size: (Crew sizes may vary due to different conditions throughout the state). Typical Material Description Class Code Asphalt Emulsion Sequence of Job Tasks Potential Hazards Safe Job Procedures Safe Job Procedures Safety glasses/Hardt boots/Heat resistant agloves/Heat resistant agloves				due and oil distillate in as	phalt emulsions compose	d principally of a semisolid or	
Description See associated test procedure Crew sizes may vary due to different conditions throughout the state). Sequence of Job Tasks Potential Hazards Safe Job Procedures Never boots/Heat resistant and ploves/Heat resis	Date Prepared: 6/22/2009					PPE Required	
Description Class Code (Crew sizes may vary due to different conditions throughout the state). Sequence of Job Tasks Potential Hazards Safe Job Procedures Never	Typical Equipment		Typical Crew Size:	Typical Material		Safety glasses/Hardtoe	
Sequence of Job Tasks Potential Hazards Safe Job Procedures Never		Class Code			Class Code	 boots/Heat resistant gloves/Heat resistant apron 	
			1				
Notes and Specifications Instructions Other Related Resources	Sequence of Job Tasks Potential Hazards		Safe Job Procedures		Never		
Notes and Specifications Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
Notes and Specifications Instructions Other Related Resources							
	N	Notes and Specification	ons Instructions		Other Related Reso	urces	
		Notes and opcomean			Other related riese		
			_				

COLORADO DEPARTMENT OF TRANSPORTATION

JOB SAFETY ANALYSIS

Potential Hazards



Never

Activity Name: Residue By [Activity Number: T5	Activity Number: T59		
Activity Description & Purp liquid asphaltic base, water, a		covers the quantitative determination of resid t.	ue and oil distillate in asp	ohalt emulsions compose	d principally of a semisolid or
Date Prepared: 6/22/2009					PPE Required
Typical Equipment		Typical Crew Size:	Туріс	al Material	Safety glasses/Hardtoe
Description See associated test procedure	Class Code	(Crew sizes may vary due to different conditions throughout the state).	Description Asphalt Emulsion	Class Code	 boots/Heat resistant gloves/Heat resistant apron

Safe Job Procedures



Sequence of Job Tasks